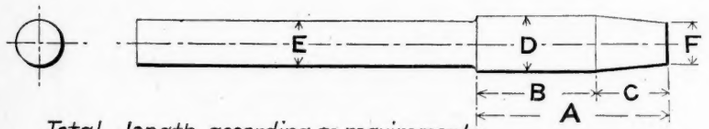
## PROPORTIONS OF TAPS.—IV.

### DIMENSIONS OF TAPPER TAPS WITH STANDARD THREADS



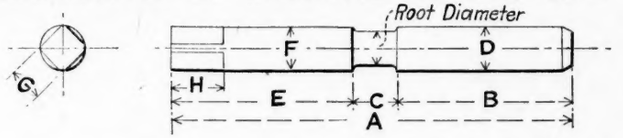

*Total length according to requirements*

| Diameter of Tap | Number of Threads per Inch | | Length of Thread | Length of Straight Part | Length of Chamfered Part | Diameter of Shank E | | Diameter of Point F | |
|---|---|---|---|---|---|---|---|---|---|
| D | U.S.St'd | V.St'd | A | B | C | U.S.St'd | V.St'd | U.S.St'd | V.St'd |
| 3/16 | 32 | 24 | 1 3/16 | 3/4 | 7/16 | 0.14 | 0.11 | 0.140 | 0.110 |
| 1/4 | 20 | 20 | 1 7/16 | 7/8 | 9/16 | 0.17 | 0.15 | 0.179 | 0.157 |
| 5/16 | 18 | 18 | 1 3/4 | 1 1/16 | 11/16 | 0.23 | 0.21 | 0.234 | 0.210 |
| 3/8 | 16 | 16 | 2 | 1 1/4 | 3/4 | 0.28 | 0.25 | 0.287 | 0.260 |
| 7/16 | 14 | 14 | 2 5/16 | 1 7/16 | 7/8 | 0.33 | 0.30 | 0.338 | 0.306 |
| 1/2 | 13 | 12 | 2 9/16 | 1 9/16 | 1 | 0.39 | 0.34 | 0.393 | 0.349 |
| 9/16 | 12 | 12 | 2 7/8 | 1 3/4 | 1 1/8 | 0.44 | 0.40 | 0.446 | 0.410 |
| 5/8 | 11 | 11 | 3 | 1 13/16 | 1 3/16 | 0.49 | 0.45 | 0.499 | 0.460 |
| 11/16 | 11 | 11 | 3 1/8 | 1 7/8 | 1 1/4 | 0.56 | 0.52 | 0.561 | 0.522 |
| 3/4 | 10 | 10 | 3 1/4 | 1 15/16 | 1 5/16 | 0.61 | 0.56 | 0.611 | 0.568 |
| 13/16 | 10 | 10 | 3 3/8 | 2 | 1 3/8 | 0.67 | 0.62 | 0.673 | 0.630 |
| 7/8 | 9 | 9 | 3 1/2 | 2 1/8 | 1 3/8 | 0.72 | 0.67 | 0.722 | 0.674 |
| 15/16 | 9 | 9 | 3 5/8 | 2 3/16 | 1 7/16 | 0.78 | 0.73 | 0.783 | 0.735 |
| 1 | 8 | 8 | 3 3/4 | 2 1/4 | 1 1/2 | 0.82 | 0.77 | 0.828 | 0.774 |
| 1 1/8 | 7 | 7 | 4 | 2 7/16 | 1 9/16 | 0.92 | 0.86 | 0.928 | 0.867 |
| 1 1/4 | 7 | 7 | 4 1/4 | 2 9/16 | 1 11/16 | 1.04 | 0.98 | 1.053 | 0.992 |
| 1 3/8 | 6 | 6 | 4 1/2 | 2 3/4 | 1 3/4 | 1.14 | 1.07 | 1.147 | 1.074 |
| 1 1/2 | 6 | 6 | 4 3/4 | 2 7/8 | 1 7/8 | 1.26 | 1.19 | 1.272 | 1.199 |
| 1 5/8 | 5 1/2 | 5 | 5 | 3 1/16 | 1 15/16 | 1.37 | 1.26 | 1.376 | 1.266 |
| 1 3/4 | 5 | 5 | 5 1/4 | 3 3/16 | 2 1/16 | 1.47 | 1.38 | 1.476 | 1.390 |
| 1 7/8 | 5 | 4 1/2 | 5 1/2 | 3 3/8 | 2 1/8 | 1.59 | 1.46 | 1.601 | 1.476 |
| 2 | 4 1/2 | 4 1/2 | 5 3/4 | 3 1/2 | 2 1/4 | 1.69 | 1.59 | 1.696 | 1.600 |

MACHINERY, N.Y.

## PROPORTIONS OF TAPS.—III.

### DIMENSIONS OF MACHINE SCREW TAPS




| Number of Tap | Diameter of Tap | Standard Number of Threads | Total Length | Length of Thread | Length of Neck | Length of Shank | Diameter of Shank | Size of Square | Length of Square |
|---|---|---|---|---|---|---|---|---|---|
| | D | | A | B | C | E | F | G | H |
| 1 | 0.071 | 64 | 1 5/8 | 9/16 | — | 1 1/16 | 0.125 | 3/32 | 3/16 |
| 1 1/2 | 0.081 | 56 | 1 11/16 | 5/8 | — | 1 1/16 | 0.125 | 3/32 | 3/16 |
| 2 | 0.089 | 56 | 1 3/4 | 5/8 | — | 1 1/8 | 0.125 | 3/32 | 3/16 |
| 3 | 0.101 | 48 | 1 13/16 | 11/16 | — | 1 1/8 | 0.125 | 3/32 | 3/16 |
| 4 | 0.113 | 36 | 1 7/8 | 11/16 | — | 1 3/16 | 0.125 | 3/32 | 3/16 |
| 5 | 0.125 | 36 | 1 15/16 | 3/4 | — | 1 3/16 | 0.125 | 3/32 | 7/32 |
| 6 | 0.141 | 32 | 2 | 13/16 | — | 1 3/16 | 0.141 | 7/64 | 7/32 |
| 7 | 0.154 | 32 | 2 1/16 | 13/16 | — | 1 1/4 | 0.154 | 7/64 | 7/32 |
| 8 | 0.166 | 32 | 2 1/8 | 7/8 | 1/8 | 1 1/8 | 0.166 | 1/8 | 7/32 |
| 9 | 0.180 | 30 | 2 3/16 | 15/16 | 1/8 | 1 1/8 | 0.180 | 1/8 | 1/4 |
| 10 | 0.194 | 24 | 2 1/4 | 15/16 | 5/32 | 1 5/32 | 0.194 | 5/32 | 1/4 |
| 11 | 0.206 | 24 | 2 5/16 | 1 | 5/32 | 1 5/32 | 0.206 | 5/32 | 1/4 |
| 12 | 0.221 | 24 | 2 7/16 | 1 1/16 | 5/32 | 1 7/32 | 0.221 | 5/32 | 9/32 |
| 13 | 0.234 | 22 | 2 1/2 | 1 1/16 | 3/16 | 1 1/4 | 0.234 | 3/16 | 9/32 |
| 14 | 0.246 | 20 | 2 9/16 | 1 1/8 | 3/16 | 1 1/4 | 0.246 | 3/16 | 9/32 |
| 15 | 0.261 | 20 | 2 5/8 | 1 3/16 | 3/16 | 1 1/4 | 0.261 | 3/16 | 5/16 |
| 16 | 0.272 | 18 | 2 11/16 | 1 3/16 | 7/32 | 1 9/32 | 0.272 | 7/32 | 5/16 |
| 18 | 0.298 | 18 | 2 13/16 | 1 1/4 | 7/32 | 1 11/32 | 0.298 | 7/32 | 5/16 |
| 20 | 0.325 | 16 | 2 15/16 | 1 3/8 | 7/32 | 1 11/32 | 0.325 | 1/4 | 11/32 |
| 22 | 0.350 | 16 | 3 1/16 | 1 7/16 | 1/4 | 1 3/8 | 0.350 | 1/4 | 11/32 |
| 24 | 0.378 | 16 | 3 3/16 | 1 1/2 | 9/32 | 1 13/32 | 0.378 | 9/32 | 3/8 |
| 26 | 0.404 | 16 | 3 5/16 | 1 9/16 | 5/16 | 1 7/16 | 0.404 | 5/16 | 3/8 |
| 28 | 0.430 | 14 | 3 7/16 | 1 11/16 | 5/16 | 1 7/16 | 0.430 | 5/16 | 13/32 |
| 30 | 0.456 | 14 | 3 9/16 | 1 3/4 | 5/16 | 1 1/2 | 0.456 | 11/32 | 7/16 |
| | | | | | | | | | |

MACHINERY, N.Y.